Formulas for extrapolation of . . .

where

$$\psi_{s_n,\nu_n}(\lambda^{(n-1)}, \lambda_n) = \frac{1}{2\pi\varphi_{\lambda^{(n-1)}}(\lambda_n)} \int_0^\infty e^{-ip_n\lambda_n}\, dp_n \int_{-\infty}^{\infty} e^{i(p_n+s_n)\mu_n}\,(1-e^{-i\nu_n\mu_n})\,\varphi_{\lambda^{(n-1)}}(\mu_n)\, d\mu_n,$$

for $\lambda^{(n-1)} \neq 0$, (5)

$$\psi_{s_n,\nu_n}(0, \ldots, 0, \lambda_n) = \frac{i\lambda_n}{2\pi\varphi_0(\lambda_n)(1+i\lambda_n)} \int_0^\infty e^{-ip_n\lambda_n}\, dp_n \int_{-\infty}^{\infty} e^{i(p_n+s_n)\mu_n}(1-e^{-i\nu_n\mu_n})\,\frac{1+i\mu_n}{i\mu_n}\,\varphi_0(\mu_n)\, d\mu_n$$

and

$$\varphi_{\lambda^{(n-1)}}(\lambda_n) = \exp\left\{-\frac{1}{2\pi i}\int_{-\infty}^{\infty} \frac{1+\lambda_n w}{\lambda_n - w} \log\left[\frac{F(d\lambda^{(n-1)}, d\lambda_n)}{F(d\lambda^{(n-1)}, \infty) \times d\lambda_n}\right] \frac{d\lambda_n}{1+\lambda_n^2} + i\alpha\right\},$$

for $\lambda^{(n-1)} \neq 0$ (6)

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Formulas for extrapolation of . . .

$$\varphi_0(\lambda_n)=\exp\left\{-\frac{1}{2\pi i}\int_{-\infty}^{\infty}\frac{1+\lambda_n w}{\lambda_n-w}\log\left[\frac{(1+\lambda_n^{-2})^{-1}\lambda_n^2 F(0,\ldots,0,d\lambda_n)}{\left(\int_{-\infty}^{\infty}\frac{\lambda_n^2}{1+\lambda_n^2}F(0,\ldots,0,d\lambda_n)\right)\times d\lambda_n}\right]\frac{d\lambda_n}{1+\lambda_n^2}+i\alpha\right\}$$

4

(α being an arbitrary real number).

Here P_n^- denotes the space of the n-dimensional vectors λ with the excluded point $\lambda = 0$; $Z(S)$ is a random measure in P_n^-, $F(S) = M|Z(S)|^2$.

Theorem 1 gives necessary and sufficient conditions for the regularity of a field.

For several special random fields one obtains explicite extrapolation formulas by reducing the extrapolation of the fields to the extrapolation of the processes.

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Formulas for extrapolation of . . . S/052/62/007/001/005/005
C111/C444

The author mentions: Kolmogorov, Kreyn, Chiang Tse-pei. He thanks A. M. Yaglom for the guidance of his paper.

There are 9 Soviet-bloc and 3 non-Soviet-bloc references.

SUBMITTED: March 3, 1960

Card 5/5

FORTUS, M.I.; YAGLOM, A.M.

Evaluation of the coefficients of the linear combination of defined functions in the presence of noise with rational spectra. Probl. pered. inform. no.14:136-150 '63. (MIRA 16:12)

L 13397-63 BDS/EWT(1)/FCC(w) AFFTC/ASD IJP(C)

ACCESSION NR: AP3001462 S/0052/63/008/002/0220/0223

52

AUTHOR: Fortus, M. I. (Moscow)

TITLE: Extrapolation of a random field satisfying the wave equation

SOURCE: Teoriya veroyatnostey i yeye primeneniya, v. 8, no.2, 1963, 220-223

TOPIC TAGS: linear extrapolation, random field, ergodic process

ABSTRACT: The random field u(t,x), which is a solution of the wave equation, is represented as the sum of two uncorrelated stationary processes. Under an assumption of ergodicity, and under the assumption that the field is known in a semi-infinite strip, best linear extrapolation formulas in the mean square sense, and corresponding mean square errors, are derived for values of the field outside the strip. Orig. art. has: 16 formulas and 1 figure.

ASSOCIATION: none

SUBMITTED: 19Dec61 DATE ACQ: 17Jun63 ENCL: 00

SUB CODE: 00 NO REF SOV: 005 OTHER: 000

Card 1/1

L 13502-65 EWT(1)/FCC ASD(d)/ESD(dp) GW

ACCESSION NR: AT4047189 S/2531/64/000/165/0027/0039

AUTHOR: Fortus, M. I.

TITLE: Three-dimensional spatial structure of the geopotential field

SOURCE: Leningrad. Glavnaya geofizicheskiay observatoriya. Trudy*, no. 165, 1964. Primeneniye statisticheskikh metodov v meteorologii (Use of statistical methods in meteorology), 27-39

TOPIC TAGS: atmospheric geopotential field, weather forecasting, atmospheric pressure field, meteorological correlation function, meteorological structural function

ABSTRACT: At present, meteorologists for the most part use only the simplest statistical characteristics -- mean values, dispersions and correlation coefficients of meteorological values. This article presents certain new data on the statistical characteristics of the most important meteorological field, the geopotential field H(xy y, p, t), determining the values of atmospheric pressure at different points at different times. Specifically, the author derives the space correlation functions of the geopotential of isobaric surfaces and proposes approximations of the derived functions using simple formulas. In

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ACCESSION NR: AT4047189

section 1 the author cites earlier papers containing data on empirical correlation and structural functions of the geopotential field and examples of the use of these data for the purpose of an objective analysis of meteorological charts and the solution of certain problems arising in numerical forecasting by the solution of the differential equations of hydrothermodynamics. In section 2 the results obtained in those studies are considered in greater detail. It is noted that in all earlier studies the authors considered the geopotential field only from a two-dimensional point of view H(x, y, t). In this study the author makes a three-dimensional study, using five isobaric surfaces (1000, 850, 700, 500 and 300 mb), and computes 15 correlation functions. The method for smoothing the functions is described, followed by their analysis. Particular attention is given to a comparison of correlation functions corresponding to five different levels. The analysis yielded information on the mean longitudinal values of dispersion for all five levels. Orig. art. has: 15 formulas, 5 figures and 2 tables.

ASSOCIATION: Glavnaya geofizicheskaya observatoriya, Leningrad (Main Geophysical Observatory)

SUBMITTED: 00 ENCL: 00 SUB CODE: ES
NO REF SOV: 006 OTHER: 000
Card 2/2

FORTUSHENKO, A. D.

D-45 FORTUSHENKO, A. D., Ed. 50 let radio (Fifty years of radio). Moscow. Gos, izd-vo lit-ry po voprosam svyazi i radio, 1945. 382p. DLC TK6548.R9F67; OUMF No. 200-H.

A pamphlet containing material for reporters covering the celebration of the fiftieth anniversary of the invention of radio by A.S. Popov. The pamphlet was approved by the Committee of the Council of Ministers of the USSR for organizing the celebration.

FORTUSHENKO, A.D., redaktor; USHOMIRSKAYA, M.M., redaktor; VEYNTRAUB, A.B., tekhnicheskiy redaktor

[60 years of radio; a collection of scientific and technical articles] 60 let radio; nauchno-tekhnicheskii sbornik. Moskva, Gos. izd-vo lit-ry po voprosam sviazi i radio, 1955. 341 p. (MLRA 8:8)
(Radio)

FORTUSHENKO, A. D.

USSR/Electronics - Communications

Card 1/1 Pub. 133 - 2/16

Authors : Fortushenko, A. D.

Title : Radio communication and radio broadcasting in the Soviet Union

Periodical : Vest. svyazi 5, 3-5, May 1955

Abstract : The role of radio as the only media of communication with northern, and far-eastern regions of the USSR is stressed, and a general description of the successive steps in the development of radio communication and radio broadcasting, is given. In addition, the article also relates that in recent years, new types of radio transmitters were produced by the industry. Namely, the KV-678, KV-5, PK-2, and PK-4, and that 300, 000 television sets of the type "Temp", "Avangard", and "Sever" were produced in 1954. Names of several Soviet scientists and engineers who contributed to the above mentioned developments are listed. Illustrations.

Institution : .....

Submitted : .....

Translation M-1319, 19 Nov 56

FORTUSHENKO, A. D. (Cand-Tech-Sci, Vice-Chairman, Technical Council, Ministry of Communications USSR.)

"SOME IMPORTANT TASKS IN INTRODUCING NEW TECHNIQUES IN THE COMMUNICATIONS FIELDS".

Vestnik Svyazi, No 10, Moscow, 1955 pp 3-4.

Translation M-1231, 18 Sep 56.

FORTUSHENKO,A.

New journal. Radio no.11:39 N'55. (MLRA 9:1)
(Telecommunication--Periodicals)

FORTUSHENKO, A.D.

Call Nr: TK 5101.F 35

AUTHORS: Fedorovich, Ye.G., Frolov, P. A.

TITLE: Ways for Further Technical Progress of Means of Communication (Puti dal'neyshego tekhnicheskogo progressa sredstv svyazi) Courses in Communication Technology (Lektsii po tekhnike svyazi)

PUB.DATA: Gosudarstvennoye izdatel'stvo literatury po voprosam svyazi i radio, Moscow, 1956, 34 pages, 12,000 copies

ORIG.AGENCY: Technical Administration of the Ministry of Communcations of the USSR

EDITORS: Chief Ed: Fortushenko, A.D.; Ed: Leybov, M. K.; Tech.Ed: Sushkevich, V.I.;

PURPOSE: The preface, signed by the Technical Administration of the Ministry of Communications, USSR, states that the monograph "is in essence a summary written to assist people giving reports who are managers of administrations and communication concerns." It is presented as part

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Call Nr: TK 5101.F 35

Ways for Further Technical Progress of Means of Communication (Cont.)

of a lecture series on communication technology.

COVERAGE: This booklet is a brief description of the principal objectives and trends in the technical development of communication facilities in the Sixth Five-Year Plan. Mention is made of the organization in 1956 of the Central Scientific Research Institute for Telephone Technique in Leningrad (NIITS) and of the Kiyev branch of the Central Scientific Research Institute for Communications (TsNIIS). There are no bibliographic references.

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Ways for Further Technical Progress of Means of Communication (Cont.)

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Call Nr: TK 5101.F 35

Ways for Further Technical Progress of Means of Communication (Cont.)

AVAILABLE: Library of Congress

Card 4/4

BORODICH, S.V.; KALININ, A.I.; FORTUSHENKO, A.D., otvetstvennyy redaktor; GRIGOR'YEV, B.S., redaktor; VEYNTRAUB, A.B., tekhnicheskiy redaktor

[Handbook for electrocommunications engineering] Inzhenerno-tekhnicheskii spravochnik po elektrosviazi. Moskva, Gos. izd-vo lit-ry po voprosam sviazi i radio. Vol. 7. [Radio relay systems] Radioreleinye linii. 1956. 172 p. (MIRA 9:9)

1. Russia (1923- U.S.S.R.) Ministerstvo svyazi. (Radio relay systems)

Fortushenko, A. D.

PHASE I BOOK EXPLOITATION 282

Fortushenko, Aleksandr Dmitriyevich, Candidate of Technical Sciences

Razvitiye sredstv svyazi v SSSR za 40 let (40 years of Development of the Means of Communication in the U.S.S.R.) Moscow, Izd-vo "Znaniy", 1957. 31 p. (Vsesoyuznoye obshchestvo po rasprostraneniyu politicheskikh i nauchnykh znaniy. Seriya IV, 1957, no. 35) 61,000 copies printed.

Ed.: Faynboym, I. B.; Tech. Ed.: Gubin, M. I.

PURPOSE: The booklet is intended to present in popular style the progress of Soviet communication facilities in the 40 years since the October Revolution of 1917.

COVERAGE: The book starts with a short description of 19th and early 20th century researches in the fields of telegraphy, telephony and telecommunications, and the state of Russian means of communications on the eve of the October revolution. The following chapters describe progress since achieved in the realms of postal, telegraphic,

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telephonic, phototelegraphic, radio and television communications. Several Russian and Soviet scientists and research institutes are mentioned in connection with their works. Among them are Agapov, I. F., mentioned as having developed in 1947 a system of two-frequency radiotelegraph, Borodich, S. V., who completed in 1956 a new 60-120 channel radio relay system in the 1600-2000 mc band covering vast areas in European and Asiatic USSR; Shmakov, P. V., head of the Leningrad Telecommunication Institure which in 1956 gave a public demonstration of colored television; the Tsentral'nyy nauchno-issledovatel'skiy institut svyazi and which with the "Krasnaya Zvezda" plant developed in 1938-40 a 12-channel system of multiplexing aerial lines with frequencies up to 150 kc. Several types of multiplexing systems and other apparatus of Soviet production are described. There are no references.

TABLE OF CONTENTS:

AVAILABLE: Library of Congress

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JJP/gmp
May 27, 1956

108-7-11/13

AUTHOR: Not given

TITLE: Allunion Scientific Session, dedicated to the Day of Radio. " (Vsesoyuznaya nauchnaya sessiya, posvyashchennaya "Dnyu" radio, Russian)

PERIODICAL: Radiotekhnika, 1957, Vol 12, Nr 7, pp 75-79 (U.S.S.R.)

ABSTRACT: About 2000 collaborators as well as representatives from foreign countries, among them also those of the American Society of Radio Engineers, participated in the session taking place from 20. to 25. May 1957.

The following participants spoke at the main session:

A.D.FORTUSHENKO on "Ways of technical development of electro telecommunication".

E.A.GAYLISH on "Small parts for mass application".

G.D.GLEBOV on "Semiconductor devices".

S.I.KATAYEV on "Electrical Telescopy".

V.K.TKACH on "Use of radio methods in the research of pathological phenomena in organisms.

A short report was delivered by

A.L.MINTS on "Putting into operation of the radiotechnical- and electron part of the synchrophasotron for 10 billion electron-volt.

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108-7-11/13

Allunion Scientific Session, dedicated to the Day of Radio.

Twelve sections were working during the session, and a total of 175 lectures was held. The lectures are dealt with in short which were held under the supervision of V.A.KOTEL'NIKOV in the section for information theory, under the supervision of G.S.TSYKIN in the section for semiconductor devices, under the supervision of A.N.KAZANTSEV in the section of radiowave propagation, and under the supervision of P.P.MESYATSEV in the section for radiotechnology.

ASSOCIATION: Not given
PRESENTED BY:
SUBMITTED:
AVAILABLE: Library of Congress

Card 2/2

FORTUSHENKO, A. D.)

FORTUSHENKO, A. D.

Without paper and distances. Vest.sviazi 17 no.10:15-18 O '57.
(MIRA 10:11)

1. Glavnyy inzhener Moskovskoy gorodskoy radiotranslyatsionnoy seti.
(Radio relay systems)

Chief, Sci. Rec. Dept. Ministry Communications USSR

FORTUSHENKO, A.D.

IODKO, Yevgeniy Konstantinovich; FORTUSHENKO, A.D., otvetstvennyy red.; VORONOVA, A.I., red.; MAZEL', Ye.I., tekhn.red.

[Organization and planning of radio communication and radiobroadcasting] Organizatsiia i planirovanie radiosviazi i radioveshchaniia. Moskva, Gos.izd-vo lit-ry po voprosam sviazi i radio, 1958. 543 p. (MIRA 11:6)
(Radiobroadcasting) (Radio)

FORTUSHENKO, A.D.

19(8) SOV/111-59-6-6/32

AUTHOR: None given

TITLE: The Construction of Communication Equipment - on the Level of New Goals

PERIODICAL: Vestnik svyazi, 1959, Nr 6, pp 1-4 (USSR)

ABSTRACT: The article presents information on an all-Union conference of construction specialists of the USSR Ministry of Communications, which was convened in Moscow. Two reports were heard with a discussion following them. The first report was delivered by M.D. Fourtsev, the USSR Minister of Communications. Means "Principles of the Development of Communications Means for 1959 - 1965, and Goals for Fulfilling the Plan of the Construction of Communication Equipment for 1959" and the Further Increase in the Technical Level of the Construction of Communication Equipment". In this report, Fourtsev pointed out that the capital investment into the construction of communication equipment will be doubled during the 1959 - 1965 period as compared with the past 7-year period. The podryadnyye tresty (contractor trusts) will do 22% more construction in 1959 than they did in 1958. The mechanization of construction is insufficient for the planned amount of work, and measures are being taken to provide for construction equipment and for automobile transport means of very high capacity. The workshops of the construction trusts will have to produce some small mechanization of mechanization. Permanent local construction-and-assembly units "UNS" are being organized to procure a stable labor force and for a base for the mechanization of urban telephone networks. The mechanization of radiofication and "telephonization" work, carried out by SMUN and SMUNCh, will be increased from 5 to 40% in the construction of overhead radiofication and (intra-area communications) lines. Also, the production and the use of reinforced concrete masts should be promoted. To bring the project development work nearer

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to the construction sites, branch project institutes were organized during 1958 in some Soviet republics, e.g. in Tashkent, Tbilisi; the branch institute in Pskov was expanded; a branch institute is planned for Novosibirsk in 1959. The standard projects have raised the technical level of construction, and are being further improved along with the modernization of equipment, production of new parts and their standardization. Nevertheless, the costs of the projects are still too high, and there are cases of defective projects and, especially often, of inaccurate costs estimates. The cooperation between the local project institutes and the scientific research institutes of the Ministry of Communications is lacking and will have to be improved. The second report was delivered by Zernov, the USSR Deputy Minister of Communications, on the Results of the Fulfilled Plan of the Investment Building for 1958, and the Goals for Further Industrialization and Mechanization of Communication Objects.

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SOV/111-59-6-6/32

The Construction of Communication Equipment - on the Level of New Goals

Zernov reviewed the achievements in investment building during the year 1958 and stressed that a number of construction organizations did not reduce the costs of construction-and-assembly work as planned, e.g. the trest "Radiostroy" (Trust "Radiostroy"). He pointed out that the planning of construction objects is not always accompanied with sufficient funds. The building investment plan for 1959 calls for an increase in construction activity of 16.5% as compared with the work volume accomplished in 1958. To achieve this, the building machinery pools will be increased and modernized; the Novosibirskaya and the L'vovskaya Baza (Novosibirsk and L'vov Bases) will be expanded, and a number of new bases will be established. The trusts will conduct an on-the-job training of 1,100 workers, and will improve the qualifications of an additional 1,020 workers; 86 engineers and 63 technicians will be assigned from among the graduates of special educational institutions. In the discussion following both re-

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ports, the operational and organizational conditions existing in the communication-construction industry were reviewed and criticized. The following persons took part in the discussion: Shmelev, Administrator of the trest "Mezhgorsvyaz'stroy" (Trust "Mezhgorsvyaz'stroy"); Turovskiy, Manager of a Main Cable Line; Lebedev, Worker of SLU-4; Yakovlev, Worker of a Main Cable Line; Anostovich, Manager of TsNIIS; Kovikov, Head of Girrosvyaz; [illegible], Administrator of the Trust "Radiostroy"; [illegible], Head of NII of the USSR Ministry of Co[redacted]; [illegible], Head of the Proyektnyy institut Ministerstva svyazi SSSR (Planning Institute of the USSR Ministry of Communications) (GSPI); Alychenkov, [illegible] Superintendent of the Trust "Radiostroy"; Ministers of Communications of the following republics: Afanas'yev - Belorusskaya, Sharkov - Uzbekskaya, Noskov - Kazakhskaya, Tsivun - Ukrainskaya, and Kavtaradze - Gruzinskaya; Kogan, Worker of the Kuybyshevskaya DRSV (Kuybyshev

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DRSV); Turushi, Manager of the trest "Soyuztelefonstroy" (Trust "Soyuztelefonstroy"); Korenev, Manager of the trest "Mostelefonstroy" (Trust "Mostelefonstroy"); Kalaykov, Welding-Team Leader of the Trust "Mostelefonstroy"; Semenkov, Head of the Glavnoye upravleniye snabzheniya Ministerstva svyazi SSSR (Main Administration of Procurement of the USSR Ministry of Communications); Seval'nev, Head of the Glavnoye upravleniye kapital'nogo stroitel'stva Ministerstva svyazi SSSR (Main Administration of Capital Investments of the USSR Ministry of Communications); Zelengurov, Administrator of the Voronezh SMUR; Petrushin, Chief Engineer of the GUMTTS; Yarchevskaya, Chief Engineer of the Trust "Mezhgorsvyaz'stroy"; and others, altogether more than 30 persons. There is one photo.

Card 6/6

FORTUSHENKO, A.D.

New work on the improvement of radiobroadcasting and television engineering. Tekh.kino i telev. 4 no.10:1-7 O'60. (MIRA 13:10)

1. Nachal'nik Nauchno-issledovatel'skogo instituta Ministerstva svyazi SSSR.
(Television) (Radiobroadcasting)

GRODNEV, I.I.; GUMELYA, A.N.; KLIMOV, M.A.; SMIRGHYCHUK, K.Ya.; SHVARTSMAN, V.O.; GRIGOR'YEV, B.S., red.; FORTUSHENKO, A.D., red.; BOGACHEVA, G.V., red.; SHIFER, G.I., tekhn.red.

[Electrical communications engineering handbook; cable and overhead communications lines] Inzhenerno-tekhnicheskii spravochnik po elektrosviazi; kabel'nye i vozdushnye linii sviazi. Moskva, Gos.izd-vo lit-ry po voprosam sviazi i radio, 1961, 558 p. (MIRA 14:3)

(Telephone lines)

BOVKUN, Viktor Georgiyevich; KAZARINOV, Ivan Alekseyevich; KOKOSHKIN, Pavel Aleksandrovich; LYUBSKIY, Gennadiy Severianovich; MEDOVAR, Anatoliy Isayevich; PETROV, Viktor Vasil'yevich; PIONTKOVSKIY, Bronislav Aleksandrovich; SERYAKOV, Nikolay Ivanovich; ELINSON, Mikhail Mikhaylovich; SERGEYCHUK, K.Ya., red.; GRIGOR'YEV, B.S., red.; FORTUSHENKO, A.D., red.; BUSANKINA, N.G., red.; SHEFER, G.I., tekhn. red.

[Engineering manual on electric communications; electric equipment] Inzhenerno-tekhnicheskii spravochnik po elektrosviazi; elektroustanovki. Moskva, Gos. izd-vo lit-ry po voprosam sviazi i radio, 1962. 671 p. (MIRA 15:6)
(Telecommunication--Handbooks, manuals, etc.)
(Electric engineering--Handbooks, manuals, etc.)

NOVIKOV, Vasiliy Vasil'yevich; ZUBOVSKIY, Leonid Isaakovich; PRAMNEK, German Fritsevich; KOGAN, Valentina Solomonovna; KLYKOV, Semen Ivanovich; NAUMOV, Pavel Alekseyevich; YEMEL'YANOV, Gennadiy Alekseyevich; VORONIN, Nikolay Isidorovich; SERGEYCHUK, K.Ya., red.; GRIGOR'YEV, B.S., red.; FORTUSHENKO, A.D., red.; NOVIKOV, V.V., otv. red.; SMOLYAN, G.L., red.; MARKOCH, K.G., tekhn. red.

[Manual on electric communications; telegraphy] Inzhenerno-tekhnicheskii spravochnik po elektrosviazi; telegrafiia. [By] V.V.Novikov i dr. Moskva, Sviaz'izdat, 1963. 654 p. (MIRA 16:5)

(Telecommunication--Handbooks, manuals, etc.)
(Telegraph--Handbooks, manuals, etc.)

PSURTSEV, N.; KUZ'MIN, V.; DOGADIN, V.; FORTUSHENKO, A., prof.; GUSEV, I.; BLOKHIN, A., kand. tekhn. nauk

Wealth of the millions. Radio no.8:4-6 Ag '64. (MIRA 17:11)

1. Ministr svyazi SSSR (for Psurtsev). 2. Nachal'nik Tekhnicheskogo upravleniya Ministerstva svyazi SSSR (for Kuz'min). 3. Zamestitel' nachal'nika Glavnogo upravleniya gorodskoy i sel'skoy telefonnoy svyazi i radiofikatsii (for Dogadin). 4. Glavnyy inzh. Glavnogo upravleniya gorodskoy i sel'skoy svyazi i radiofikatsii (for Gusev).

FORTUSHENKO, A.D., prof., red.

[70th anniversary of radio] Radio 70 let; nauchno-tekhnicheskii sbornik. Moskva, Sviaz', 1965. 331 p.
(MIRA 18:7)

FORTUSHENKO, A., prof.

By means of a relay station in outer space. Radio no.7:7-9 Jl '65. (MIRA 18:9)

PSURTSEV, N.; KUZ'MIN, V.; DOGADIN, V.; FORUSHENKO, A., prof.; GUSEV, I.; BLOKHIN, A., kand. tekhn. nauk

It was accomplished by millions. Radio no.8:4-6 Ag '65.
(MIRA 18:7)

1. Ministr svyazi SSSR (for Psurtsev). 2. Nachal'nik Tekhnicheskogo upravleniya Ministerstva svyazi SSSR (for Kuz'min). 3. Zamestitel' nachal'nika Glavnogo upravleniya gorodskoy i sel'skoy telefonnoy svyazi i radiofikatsii (for Dogadin). 4. Glavnyy inzh. Glavnogo upravleniya gorodskoy i sel'skoy telefonnoy svyazi radiofikatsii (for Gusev).

FORTUSHENKO, A.D.

Seventieth anniversary of the invention of radio. Radiotekhnika 20 no.5:5-9 My '65. (MIRA 18:10)

1. Pochetnyy chlen Nauchno-tekhnicheskogo obshchestva radiotekhniki i elektrosvyazi imeni Popova.

L 07127-67 EWT(d)/FSS-2/EWT(1)/EEC(k)-2 AST/IT

ACC NR: AN7001058 SOURCE CODE: UR/9012/66/000/150/0004/0004

AUTHOR: Fortushenko, A. (Professor; Technical director of experimental space color transmission project)

47
B

ORG: none

TITLE: Color telecast: Paris-Molniya-I-Moscow

SOURCE: Pravda, 30May66, p. 4, col. 1-2

TOPIC TAGS: color TV, communication satellite/Molniya-1 communication satellite

ABSTRACT: On 28 May at the Moscow Television Center there was a demonstration of reception of color TV. It was transmitted from Paris via the Soviet satellite "Molniya-1". This was the result of an agreement concluded between France and the USSR in March 1965 for cooperation in the joint development of a system for transmission of color television. A test run of the satellite system was made in November 1965 with transmission of a program from Moscow to Paris. On 28 May the TV images were transmitted along a cable to a large antenna situated outside Paris and then to the Soviet satellite, which carries a powerful 40-W transmitter. The transmission was received over a wide area. It was received near Moscow and transmitted by land line to the Moscow Television Center. The color image was shown in an auditorium, automatically magnetically

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ACC NR: AN7001058

recorded and fed to a television transmitter. Soon it will be feasible to have regular black-and-white and color TV transmission between the USSR and France via the "Molniya" satellite. The sound accompaniment for the program was fed along a land cable. For regular transmissions it will be necessary to arrange simultaneous transmission of sound and picture via the satellite as is now done for black and white transmission. This problem now is being solved by Soviet and French scientists. [JPRS: 36,553]

SUB CODE: / SUBM DATE: none

Card 2/2 egh

FORTUSHNOV, D.I.

USSR / Human and Animal Morphology (Normal and Pathological). S
Skeleton.

Abs Jour : Ref Zhur - Biol., No 21, 1958, No 97150

Author : Fortushnov, D.I.
Inst : Saratov Medical Institute
Title : Some Data on the Development of the Structure of the Spongy Substance of Human Vertebrae.

Orig Pub : Tr. Kafedr. norm. anatomii, Saratovsk. med. in-t, 1955, vyp. 1, 88-93

Abstract : No abstract.

Card 1/1

FORTUSHNOV, Dmitriy Ivanovich

To the Question Concerning Structures of the Lumbar-Sacral Sections of the Spinal Column and Clinical Significance of Several Variants of its Breaks

Dissertation for dandidate of Medical Science degree, Chair of Normal Anatomy (head, Prof. V.I. Bik) Saratov Medical Institute, 1952

FORTUSHNYI, V. A. and KAPUSTIN, I. K. (Candidate of Veterinary Sciences and Veterinary Surgeon, UNIIEV).

"Penicillin in eye therapy"

Veterinariya, Vol, 38, no. 10, October 1961, pp. 81-89

FORTUSHNYI - Cand. Vet. Sci

OKUN'KOV, P.; OSTAPENKO, K.; YEPIFANOV, G.F.; MEDVEDEV, I.D.; FORTUSHNYY, V.; IBRAGIMOV, R.P.; KOLEGAYEV, G.

Brief news. Veterinariia 41 no.12:101-109 D '64. (MIRA 18:9)

FORTUSHNYI, V. A.
Ukrainian Inst of Experimental Veterinary Medicine
"Treatment of skin mange of horses with sulfur-lime powder."
SO: Veterinariia 24(1), 1947, p. 9.

GLADENKO, I. N. and FORTUSHNYI, V. A., Cand. of Vet. Sci.
Ukrainian Institute of Experimental Veterinary Medicine
"Use of DDT and hexachlorane in the fight against dipterous blood-sucking insects."
SO: Veterinariya 26 (7), 1949, p. 40

FORTUSHNYY, V. A.

25918. FORTUSHNYY, V. A. Lechenie nekrvbatsilleza. Veterinariya, 1949, No. 8, S. 21-23.

So. Letopis' Zhurnal'nykh Statey, Vol. 34, Moskva, 1949

PALIMPSETOV, M. A., OSTASHEVSKII, A. G., FORTUSHNYY, V. A., Cand. of Vet. Sci., and ALEIMOVA, A. V.

"The influence of physical and chemical factors on mange ticks in environment."

SO: Vet. 27 (10) 1950, p. 38

1. Fortushnyy, V.A., Gladenko, I.N.

2. USSR (600)

4. Hexachloran

7. Testing the toxicity of hexachloran on warmblooded animals. Nauch. trudy UIEV 18, 1951.

9. Monthly List of Russian Accessions. Library of Congress. March 1953 Unclassified.

1. PALIMPSESTOV, M. A.: FORTUSHNYI, V. A.: GLADENKO, I. N.

2. USSR (600)

4. Ticks

7. Studying the tick-killing properties of DDT and hexachloran in relation to pasture ticks and experiments in preventing tick infestation of farm animals. Nauch. trudy UIEV 18, 1951.

9. Monthly List of Russian Accessions, Library of Congress, March 1953. Unclassified.

1. FORTUSHNYY, V. A., GLADENKO, I. N.

2. USSR (600)

4. Gadflies - Dnieper Valley

7. Horseflies (Tabanidae) of the Lower Dniefer flood plains and measures for their control. Nauch.trudy UIEV 18 - 195[illegible],

Monthly Lists of Russian Accessions, Library of Congress, March, 1953, Unclassfied.

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Toxicity of hexachloran (benzene hexachloride) to warm-blooded animals. V. A. Fortushnyi and I. N. Gladenko. *Veterinariya* 28, No. 2, 37-9(1951).—Benzene hexachloride administered internally is highly toxic to white mice, rabbits, dogs, and horses. Administration of the pure substance at 0.5 g./kg. or higher is definitely toxic to rabbits and dogs, and at 0.025 g./kg. to horses; lethal doses are 0.75 g./kg. and 0.1 g./kg., resp. Externally applied to the skin the pure substance is not toxic to horses or cattle (used as 1:4 aq. suspension of 12% dust with neutral filler). Rabbits and dogs are less susceptible to intoxication on internal administration than horses at the same dosage.

G. M. Kosolapoff

1951

FORTUSHNYY, V. A.,

Veterinary Hygiene

Results of work in the Chuguevskii zootechnical veterinary district. Veterinariia 29 no. 2, 1952.

9. **Monthly List of Russian Accessions**, Library of Congress, April 1953. Unclassified.

[redacted], V. A.

256T1

USSR/Biology - Insecticides Mar 53

"Control of Blood-Sucking, Two-Winged Insects, by Means of Aerial Dispersion of Contact Poisons," I. N. Gladenko, Cand of Vet Sci, V. A. Fortushnyy, Ukr Inst of Exptl Vet Med

Veterinaria, No 3, pp 37-40

Describes exptl attempts to destroy the breeding places of harmful insects, such as mosquitos, horseflies, etc., by aerial dispersion of DDT and hexachlorane. Ascribes the highly satisfactory results obtained to careful prepn of the contact poison, its proportions being calculated as 1-2 kg per hectar; also to the freq of the operation, covering the same area not less than three times a month. The effectiveness of DDT and hexachlorane has been found to be approx the same. In bodies of water such as ponds, reservoirs, etc., these poisons showed essentially no adverse effects on zoological plankton, benthos and fish.

256T1

FORTUSHNYY, V. A.

PALIMPSESTOV, M. A. AND FORTUSHNYY, V. A.: New medicinal agents and their use in veterinary practice. Kiev. Agricultural Publishing House. 1952. 119 pages. Price 1 ruble, 95 kopeks. 30,000 copies. In Ukrainian.

Parasites and parasitoses of domestic animals. (collected works). Kiev. Publication of the Academy of Sciences, Ukrainian SSR. 1952. 124 pages with illustrations. Price 7 rubles, 55 kopeks. 2,000 copies. Resume of articles in Russian.

The works on morphology and physiology of grap karakul sheep. Moscow. Publication of the USSR Academy of Sciences. 1952. 259 pages with illustrations. No. 7. Price 14 rubles, 25 kopeks. 1,500 copies.

SO: Veterinariya; 30; (1); January 1953; Uncl. TABCON

GLADENKO, I.N., kandidat veterinarnykh nauk; FORTUSHNYY, V.A., kandidat veterinarnykh nauk.

Control of bloodsucking diptera by airplane spraying of biotope area with contact poisons. Veterinariia 30 no.3:37-40 Mr 53. (MLRA 6:3)

1. Ukrainskiy institut eksperimental'noy veterinarii.

(2)

Toxicity of food substances obtained from plants treated with benzene hexachloride (BHC). I. N. Gladenko and V. A. Fortushnyĭ. *Veterinariya* 31, No. 3, 59–63(1954).—Beet plants which had been treated with 30–40 kg. BHC/ha. two or more months previously are harmless as feed for farm animals. Tubers of beets or potatoes grown in soil treated with 12% BHC dust at dosage not over 100 kg./ha., or from seeds which were pretreated with BHC, are also usable for feed without harm. Grass and hay can be used as feed provided the BHC treatment was 3–4 weeks before harvesting. The fat of animals on the latter feed can acquire a peculiar odor.

G. M. Kosolapoff

Ukr. Inst. Experimental Vet. Sci.

FORTUSHNYY, V.A., kandidat veterinarnykh nauk.

Biomycin and levomycetin in paratyphoid fever and colibacillosis in calves. Veterinariia 32 no.2:36-38 F '55. (MLRA 8:3)

1.Ukrainskiy institut eksperimental'noy veterinarii.
(ANTIBIOTICS) (CALVES--DISEASES) (PARATYPHOID FEVER)

FORTUSHNYY, V A.

New antiparasitic preparations from coal tar. V. A. Fortushnyĭ and D. M. Pats. *Veterinariya* 32, No. 8, 74-6 (1955).—Insecticidal and acaricidal properties were found in thianaphthene, which was employed in dusts or oil solns. on infected horses and rabbits with various specimens of lice, moths, and ticks. The parasites are killed outright after a rapid onset of paralysis. G. M. Kosolapoff

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USSR / Pharmacology, Toxicology. Chemotherapeutic Preparations. V

Abs Jour: Ref Zhur-Biol., No 9, 1958, 42461.

Author : Gladenko, I. N.; Fortushny, V. A.; Yezhova, O. I.
Inst : Ukrainian Institute of Experimental Veterinary Sciences.
Title : The Effect of Biomycin and Levomycetin upon the Higher Nervous Activity in Animals.

Orig Pub: Byul. nauchno-tekhn. inform. Ukr. n-i. in-t eksperim. veterinarii, 1957, No 3, 24-26.

Abstract: It was demonstrated in experiments on rats with the aid of the conditioned reflex method that biomycin (I) and levomycetin exert an action upon the inhibition processes in the cerebral cortex. In moderate doses (25 mg/kg) this is manifested by intensification of the inhibitive processes

Card 1/2

FORTUSHNYY, V.A.

GLADENKO, I.N., kand. vet. nauk; FORTUSHNYY, V.A., kand. vet. nauk; NIKIFOROV, N.I., kand. vet. nauk.

Work practice of disinfection detachments in the Ukraine. Veterinariia 34 no.10:64-67 O '57. (MLRA 10:11)
(Ukraine--Disinfection and disinfectants)

USSR / Pharmacology. Toxicology. Chemicotherapeutic Preparations. Anti-Biotics. V

Abs Jour : Ref. Zhur - Biologiya, No. 3, 1959, 14033

Author : Gladenko, I. N.; Fortushnyy, V. A.
Inst : -
Title : The Influence of Biomycin and Levomycetin on the Motor-Evacuatory Function of the Gastro-Intestinal Tract in Pigs and Dogs.

Orig Pub : Byul. nauchno-tekhn. inform. Ukr. n.-i. in-t eksperim. veterinarii, 1957, No. 3, 27-28

Abstract : It was shown that biomycin (I) and levomycetin (II) influence the motility of the gastro-intestinal tract in various ways. Maximum therapeutic doses of I (25-30 mg/kg) in internal application increased the motor function of the

Card 1/2

USSR / Pharmacology. Toxicology. Chemicotherapeutic Preparations. Anti-Biotics. V

Abs Jour : Ref. Zhur - Biologiya, No. 3, 1959, 14033

stomach and the small intestines. The peristaltic waves became more frequent, expressed and deep. Increased doses of I (50-75 mg/kg) induced similar, but more strongly-expressed changes. Small doses of I (15 mg/kg) did not induce an increase of stomach and intestine motility, and in individual cases even slowed down the movement of their content. II in a dose of 15-25-30 mg/kg weakened the motor function of the stomach and intestines. With application of II in a dose of 50-75 mg/kg, the effect was sharper. -- I. Ya. Panchenko

Card 2/2

USSR/Diseases of Farm Animals. Diseases Caused by Viruses and Rickettsiae. R-1

Abs Jour : Ref Zhur-Biol., No 20, 1958, 92698

Author : Fortushnyy, V. A., Gladenko, I. F.
Inst : Ukrainian Scientific Research Institute of Veterinary Science.
Title : Treating Enzootic Bronchopneumonia in Young Pigs with Antibiotics.

Orig Pub : Byul. nauchno-tekhn. inform. Ukr. n.-i. in-ta eksperim. veterinarii, 1957, No 3, 34-35

Abstract : Biomycin [chlortetracycline] (I), levomycetin [chloramphenicol] (II), and streptomycin (III) were used. Into the pigs aged 1-4 months, I was introduced internally, intra-

Card : 1/2

Abs Jour : Ref Zhur-Biol., No 20, 1958, 92698

muscularly, subcutaneously, or into the trachea twice a day during 6 days in a dose of 30 mg/kg. After an interruption of 2 days, the treatment was resumed for 4 days. II was given internally in a dose of 25 mg/kg twice a day, and III intramuscularly in a dose of 10 thousand units per 1 kg following the same time procedure as with I. I introduced perorally and intratracheally showed the best therapeutic results. II showed a less pronounced effect III a still weaker one. -- I. Ya. Panchenko

USSR/Diseases of Farm Animals. Diseases Caused by Bacteria and Fungi R

Abs Jour : Ref Zhur - Biol., No 19, 1958, No 88233

Author : Fortushnyy V.., Gladenko I.N.
Inst : Ukrainian Scientific Research Institute of Experimental Veterinary Medicine
Title : Study of the Medicinal Effects of Antibiotics in Spontaneous Paratyphoid Infections in Swine

Orig Pub : Byul. nauchno-tekhn. inform. Ukr. n.-i. in-t eksperim. veterinarii, 1957, No 3, 36-37

Abstract : Levomycetin (I), biomycin (II), and streptomycin (III) were used as medications. I and II were administered internally in the form of a water suspension 2 times daily in a dose of 36 mg/kg for 4-5 consecutive days, while III was injected intramuscularly twice daily, each time in a dose of 10 thousand units per 1 kg of weight. Best therapeutic results (95.65 percent) were produced with II, and somewhat lesser results were obtained with I (93.9 percent). Medicinal effects

Card : 1/2

FORTUSHNYY, V.A., kand. veterinarnykh nauk; GOVOROV, A.M., kand. veterinarnykh nauk; TSYHENKO, I.Z., veterinarnyy vrach; BOYCHENKO, A.S., veterinarnyy vrach; KALITENKO, Ye.T., veterinarnyy vrach

Stachybotryotoxicosis in cattle and its treatment. Veterinariia 36 no.9:67-70 S '59. (MIRA 12:12)
(Cattle--Diseases and pests)
(Mushrooms, Poisonous)

FORTUSHNYY, V.A., kand.veterinarnykh nauk; GLADENKOV, I.N., kand. veterinarnykh nauk; PROSTYAKOV, A.P., kand.biologicheskikh nauk; SHMIDOV, P.N., mladshiy nauchnyy sotrudnik; YEZHOVA, O.I., starshiy laborant

Use of antibiotic aerosols in diseases of young pigs. Veterinariia 37 no.9:56-58 S '60. (MIRA 14:11)

1. Ukrainskiy nauchno-issledovatel'skiy institut eksperimental'noy veterinarii.

(Swine--Diseases and pests)
(Aerosol therapy) (Antibiotics)

FOMTUSHNYY, V.A.; YEZHOVA, O.I.

Sensitivity of pathogenic micro-organisms to antibiotics. Antibiotiki 6 no.5:441-442 My '61. (MIRA 14:7)

1. Ukrainskiy nauchno-issledovatel'skiy institut eksperimental'noy veterinarii, Khar'kov.
(ANTIBIOTICS)

PROSTYAKOV, A.P.; FORTUSHNYY, V.A.; KOVYNDIKOV, M.S.

Changes in the blood serum protein content in pregnant cows and young calves. Ukr. biokhim. zhur. 33 no.4:505-513 '61. (MIRA 15:6)

1. Ukrainian Experimental Veterinary Research Institute, Kharkov.

(BLOOD PROTEINS) (PREGNANCY)

NOVIKOV, V.M., kand. veter. nauk; FORTUSHNYY, V.A., kand. veter. nauk; SHULYAK, V.D., mladshiy nauchnyy sotrudnik

Treatment of piglets infected with paratyphoid fever. Veterinariia 39 no.11:42-44 N '62. (MIRA 16:10)

1. Ukrainskiy nauchno-issledovatel'skiy institut eksperimental'noy veterinarii.

FORTUSHNYY, V.A.; NOVIKOV, V.N., kand. vet. nauk; [illegible], V.P., mladshiy nauchnyy sotrudnik

Study and propagate the advanced practices of livestock farmers and veterinary specialists in the Ukraine. Veterinariia 39 no.7:24-29 Jl '62. (MIRA 18:1)

1. Ukrainskiy nauchno-issledovatel'skiy institut eksperimental'noy veterinarii.

FORTUSHNYY, V.A., kand. veter. nauk; NOVIKOV, V.M., kand.veter. nauk

Elimination of undesirable microflora in the fermentation of native antibiotics. Veterinariia no.12:52-54 D '63. (MIRA 17:2)

1. Ukrainskiy nauchno-issledovatel'skiy institut eksperimental'noy veterinarii.

GLADENKO, I.N.; PROSTYAKOV, A.F., FORTUSHNYY, V.A., KHROMENKO, L.I.

Biochemical changes in the blood of rabbits in experimental hexachloran poisoning. Farm. i toks. 26 no.1:108-113 Ja-F '63. (MIRA 17:7)

1. Otdel farmakologii Ukrainskogo nauchno-issledovatel'skogo instituta eksperimental'noy veterinarii.

NOVIKOV, V.M.; FORTUSHNYY, V.A.; SHULYAK, V.D.

Method of determining vitamin B_{12} using Escherichia coli.
Mikrobiologiia 32 no.2:319-322 Mr-Ap '63. (MIRA 17:9)

1. Ukrainskiy nauchno-issledovatel'skiy institut eksperimental'noy veterinarii, Khar'kov.

FORTUSHNYY, Vladimir Anisimovich; NOVIKOV, Vladimir Mitrofanovich; KALUGIN, Leonid Konstantinovich; GRECHKO, G.S.[Hrechko,H.S.], red.

[Prophylaxis of diseases in young farm animals; aid to veterinary specialists and stockbreeders] Profilaktyka khvorob molodniaka sil's'kohospodars'kykh tvaryn; na dopomohu veterynarnym spetsialistam i pratsivnykam tvarynnytstva. Kharkiv, Kharkivs'ke knyzhkove vyd-vo, 1964. 74 p. (MIRA 18:2)

PORTUSHNYY, V.A., kand. veterinarnykh nauk; SHMIDOV, P.N., starshiy nauchnyy sotrudnik

Effect of antibiotics in paratyphoid fever of young pigs. Veterinariia 41 no.4:23-25 Ap '65. (MIRA 18:6)

1. Ukrainskiy nauchno-issledovatel'skiy institut eksperimental'noy veterinarii.

NOVIKOV, V.M., kand. veter. nauk; FORTUSHNYY, V.A., kand. veter. nauk; SHULYAK, V.D., mladshiy nauchnyy sotrudnik; TENSHROVSKAYA, V.K., veterinarnyy vrach

Accelerated indicator method for determining vitamin B12. Veterinariia 42 no.5:106-108 My '65. (MIRA 18:6)

1. Ukrainskiy nauchno-issledovatel'skiy institut eksperimental'noy veterinarii.

NOVIKOV, V.M., kand.veter.nauk; FORTUSHNYY, V.A., kand.veter.nauk; GENSEROVSKAYA, V.K., veterinarnyy vrach

Sensitivity of the pathogen of swine erysipelas to antibiotics. Veterinariia 41 no.7:26-27 Jl '64. (MIRA 18:11)

1. Ukrainskiy nauchno-issledovatel'skiy institut eksperimental'noy veterinarii.

FORTUSHNYY, V.A., kand. veter. nauk; SHMIDOV, P.N., nauchnyy sotrudnik; TIMOSHENKO, O.P., nauchnyy sotrudnik

Action of antibiotics and their combinations in colienteritis of calves. Veterinariia 42 no.12:11-13 D '65. (MIRA 19:1)

1. Ukrainskiy nauchno-issledovatel'skiy institut eksperimental'noy veterinarii.

FORTYN, Karel

Eosinphilic granuloma of the stomach. Rozhl.chir. 39 no.9:620-623 S '60.

1. Chirurgicke oddeleni nemocnice Sokolov, prednosta MUDr Karel Stropnicky.
(STOMACH dis.)
(EOSINPHILIC GRANULOMA case reports)

STROPNICKY, Karel; FORTYN, Karel

2 rare cases of synovial blastoma. Acta chir. orthop. trauma. Cech. 28 no.2:96-99 Ap '62.

1. Chirurgicke oddeleni nemocnice v Sokolove, prim. dr. Karel Stropnicky.

(SYNOVIOMA case reports)

LIBANSKY, J.; MALASKOVA, V.; FORTYNOVA, J.; VOPATOVA, M.

Experiences with the transfusion of blood platelets in thrombocytopenias and thrombocytopathies. Cas.lek.cask. 98 no.49/50: 1568-1572 4 D '59.

1. Ustav hematologie a krevni transfuze, reditel prof.dr.J.Horejsi, klin.oddeleni, prednosta doc.dr. J. Libansky, a transfusni stanice, prednosta dr. M. Vopatova.

(BLOOD PLATELETS)
(BLOOD TRANSFUSION)
(THROMBOPENIA ther.)

FORTYNOVA, J.

Czechoslovakia

Institute of Hematology and Blood Transfusion (Ustav hematologie a krevni transfuse v Praze), Prague; Director: J. HOREJSI, MD, DSc; Clinic Director: J. LIBANSKY, MD.

Brno, Vnitrni lekarstvi, No 10, Oct 62, pp 1063-1069.

"A Discussion of the Problem of the Mechanism of Leukergy."

Co-author:

POSPISILOVA, V., Institute of Hematology and Blood Transfusion, Prague.

(2)

FORTYN'SH, G. [Fortins, G.]

Session of the Siberian Department of the Academy of Sciences of the U.S.S.R. on the methods of mathematical modelling. Izv.AN Latv.SSR no.12:124-128 '63. (MIRA 17:3)

FORVARD, F.A., professor; KHALPERN, Dzh., [HALPERN, G.] professor.

Hydrometallurgical processes at elevated pressures (from "Bull. of the Inst. of Mining and Metallurgy," Feb. 1957). Zhur.prikl.khim. 30 no.1:3-25 Ja '57. (MLRA 10:5)

1.Zaveduyushchiy gornym i metallurgicheskim otdeleniyem Universiteta Britanskoy Kolumbii, Vankuver, Kanada (for Forvard)
(Hydrometallurgy)

FORTYNOVA, J.

Czechoslovakia

Institute of Hematology and Blood Transfusion (Ustav hematologie a krevni transfuse v Praze), Prague; Director: J. HOREJSI, MD, DSc; Clinic Director: J. LIBANSKY, MD.

Brno, Vnitrni lekarstvi, No 10, Oct 62, pp 1063-1069.

"A Discussion of the Problem of the Mechanism of Leukergy."

Co-author:

POSPISILOVA, V., Institute of Hematology and Blood Transfusion, Prague.

(2)

LIBANSKY, J.; CHROBAK, L.; MRKOS, D.; FORTYNOVA, J.; CERNIK, F.; SEMRAD, O.

Blood dyscrasias of drug etiology. Cas. lek. cesk. 101 no.51:1494-1503 21 D '62.

1. Ustav hematologie a krevni transfuze, prednosta prof. dr. J. Horejsi, DrSc., prednosta klinickeho oddeleni doc. dr. J. Libansky, II. interni klinika lekarske fakulty KU v Hradci Kralove, prednosta prof. dr. J. Rehor, DrSc., I. interni klinika lekarske fakulty UJEvP v Brne, prednosta prof. dr. M. Stejfa, nemocnice v Havlickove Brode.
(AGRANULOCYTOSIS) (THROMBOPENIA) (HEMATOLOGY)
(DRUG ALLERGY)

NESMEYANOV, A.N.; FIRSOVA, L.P.; REYNKHARDT, M.; FORYS', M.; KURGANOVA, S.Ya.

Preparation of indole tagged with carbon-14 by the hot synthesis method. Radiokhimiia 4 no.6:739-740 '62. (MIRA 16:1)
(Indole) (Carbon--Isotopes)

FIRSOVA, L.P.; FORYS', M.

Mechanism of C^{14} recoil atoms in systems containing indole. Radiokhimiia 6 no.5:610-61. '64. (MIRA 18:1)

FIRSOVA, L. P.; NESMEYANOV, A. N.; BARAKAT, M. F.; FORYS, M.

"The interaction of C^{14} recoil atoms in binary mixtures."

report presented at IAEA Symp on Chemical Effects Associated with Nuclear Reactions and Radioactive Transformations, Vienna, 7-11 Dec 64.

L 39542-66 EWT(m)/T IJP(c) GD

ACC NR: AP6008156 SOURCE CODE: PO/0046/65/010/007/0427/0431

AUTHOR: Forys', Mechislav--Forys, M.; Zlotovski, Ignatsy--Zlotowski, I. 9 B

ORG: Nuclear Chemistry Faculty, University of Warsaw, Warsaw

TITLE: Device for precise measurements of sup 14 C radioactivity in organic compounds

SOURCE: Nukleonika, v. 10, no. 7, 1965, 427-431

TOPIC TAGS: radioisotope, carbon, radioactivity measurement, radiochemistry, carbon compound

ABSTRACT: The construction and operation of a self-quenching G-M counter 19 for measuring radioactivity of ^{14}C in organic compounds, converted to CO_2, is described. The statistical error involved in measuring specific activities of the order of 5×10^{-5} μc/mg was less than 1%. Orig. art. has: 2 figures and 2 tables. /NA/

SUB CODE: 07, 18 / SUBM DATE: none / ORIG REF: 001 / OTH REF: 006
SOV REF: 001

Card 1/1 vmb

Forys, Stanislaw

BILEK, Mieczyslaw; FORYS, Stanislaw; KALCZYNSKI, Jerzy; LECZYCKA, Maria; MALSKI, Leszek; SWIECHOWSKA, Walentyna

Preventive vaccination against influenza in Krakow during 1954-55. Przegl. epidem., Warsz. 10 no.2:121-126 1956.

1. Z Wojewodzkiej Stacji Sanitarno-Epidemiologicznej w Krakowie.
(INFLUENZA, prevention and control,
vacc. in Poland (Pol))

FORYS, Acta Polska Medica S.A. Vol.II/6 Microbiology, Stanisław Immunology and Serology June 58

1492. THE ANTIBODY LEVEL IN PERSONS CONVALESCENT AFTER TYPHUS FEVER MEASURED BY CFT - Poziom przeciwciał wiążących dopełniacz u ozdrowieńców po durze wysypkowym - Forys S., Lutyński R. and Raginis Z. Wojewódzk. Stacji San.-Epid., Kraków - PRZEGL. EPIDEM. 1957, 11/2 (157-162) Graphs 1 Tables 1

Using the CFT, 50 sera obtained from persons who had had typhus fever during the period of 1918-1955 were tested with R. prowazeki antigen. The initial dilution of each serum was 1:5. Forty-two sera were positive, 8 negative. During a 4-year period after the onset of the illness all persons tested showed a positive CFT and after this period some sera were found negative. Unspecific positive CFT with titres 1: 5 and 1: 10 were found in a number of persons who had never had typhus fever. (IV,17*)

FORYS, Stanislaw

Reports of tuberculosis clinics in the light of statistical analysis.
Gruzlica 27 no.7:695-699 Jl '59.
(TUBERCULOSIS epidemiol.)

FORYS, S.; LUTYNSKI, R. (Krakow)

The lambing of sheep infected with Ricketsia burneti and the Q-fever in men. Rocz nauk roln wet 70 no.1/4:284 '60.
(EEAI 10:9)

(Sheep) (Rickettsia burneti) (Q fever)

CA

9

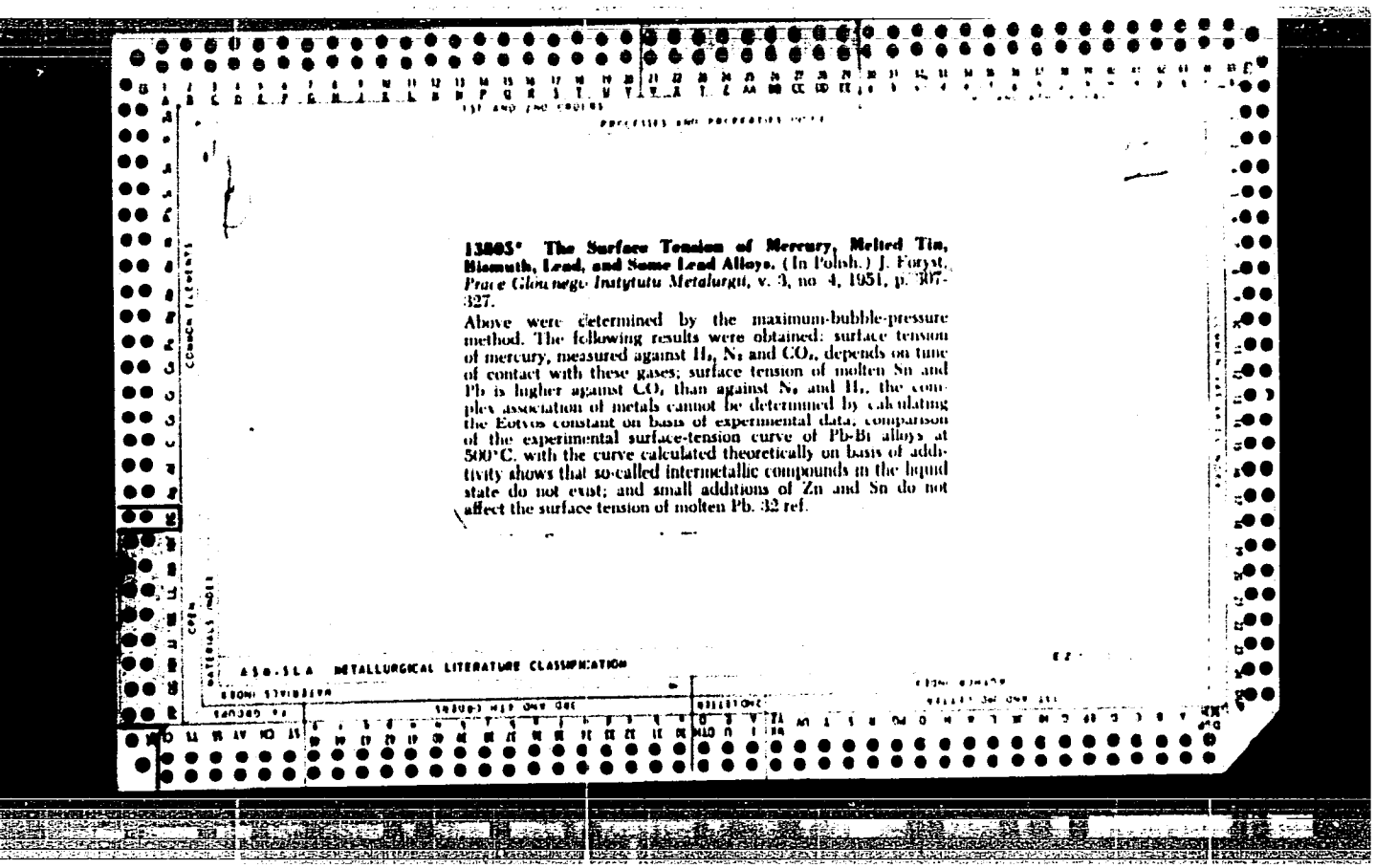
Action of inhibitors in the acid pickling of steel. I. M. Śmiałowski and J. Foryst (Inst. Metalurgii, Gliwice, Poland). *Prace Katedry Chemii Ogólnej Inst. Met. i Odlew.* 1949, 147–53 (English summary).—The inhibition efficiency was studied of 3 org. compds., dibenzyl sulfide, dibenzyl sulfoxide, and thiocarbanilide, in the pickling of iron, steel, and other metals. Dibenzyl sulfide and thiocarbanilide in a concn. of 50–80 mg./l. entirely restrain the H evolution during the pickling of mild steel in 2 N H_2SO_4 at 60°, but do not completely hinder the diffusion of H into the steel. The presence of Ni ions in the acid soln. increases the inhibition efficiency to some extent; the presence of Cu ions, on the other hand, reduces it considerably. A greater content of normal constituents in steel (e.g. C and S) also reduces the inhibition efficiency. The greatest inhibition efficiency of dibenzyl sulfoxide in HCl was noted in the case of Ni, Co, and Fe; it was smaller in the case of Cr and Al, and the smallest in the case Zn and Mn.

Edward A. Ackermann

C. A.
1951

Testing the efficacy of various methods of cleaning steel surfaces from mineral-oil layers. M. Smilakowski, J. Foryst, and A. Madejski. *Prace Glow. Inst. Met.* 3, No. 1, 55-63(1951).—Specimens of cold-rolled soft steel strip were thoroughly cleaned with fine-grained emery paper (000) and then electrolytically treated in a soln. contg. NaOH 2, Na_3PO_4 1, and Na_2SiO_3 (sp. gr. 1.37) 4% at cathodic c.d. 5 amp. per sq. dm., at 90°, for 2 min. The cleaned surface was then immersed in a soln. of 1-10% by wt. of machine oil in benzene for 1 min. The specimen after immersion was allowed to drain for 3 hrs. during which it was kept upright on blotting paper. Specimens were then subjected to chem. and electrolytic degreasing, after which the cleanliness of the surface was tested by the following methods: wetting with water, weighing, ultraviolet irradiation, and plating with Cu. The chem. degreasing was carried out by immersing for 5 min. at 90–95° in aq. solns. contg. 1 or more of the following substances: NaOH, Na_2SiO_3 (sp. gr. 1.37), Na_3PO_4, Leonil S (Na salt of the condensation product of naphthalenesulfonate with CH_2O), common soap, oleic soap, naphthenic soap, Ultravon (an emulsifier produced by Ciba, Basel), and Saponol (emulsifier produced by the firm Boruta in Zgierz, Poland). Of these substances Na_2SiO_3 was most effective, but none gave complete degreasing. A 3% soln. of Na_2SiO_3 combined with 1% of one of the other substances gave best results with NaOH in which case the degree of cleaning was 95%. NaOH (1%) combined with 1% of one of the other substances gave better results than any of the substances taken alone but worse than in combination with Na_2SiO_3. The relatively best results were obtained in its combination with Leonil S. Mixts. of 1% Leonil S with 1% of one of the other substances (except NaOH) gave no better results than Leonil S taken alone. Of 3-component mixts. best results gave Na_2SiO_3 3, NaOH 1, and Leonil S 1%; degreasing was effected in 2 2½ min. A mixt. of the first two substances and common soap 1% gave degreasing within 2-3 min. A mixt. of the first two and Na_3PO_4 1% gave within 3 min. almost complete degreasing. Thus, an effective bath can be devised of several components which when acting alone are either utterly ineffective or only modestly effective. Electrolytic degreasing in a soln. contg. Na_3PO_4 0.75, NaOH 1, and Na_2SiO_3 3% at 90-95° with a Ni anode, and a cathodic c.d. of 3.5 amp. per sq. dm. was effected completely after 60 sec. The 3-component bath and the electrolytic method although effective in removing oil films applied for test purposes were ineffective in removing oil layers left during cold rolling. In the latter case only C_2HCl_3 was effective.

M. Hosch



13803* The Surface Tension of Mercury, Melted Tin, Bismuth, Lead, and Some Lead Alloys. (In Polish.) J. Foryst. *Prace Glownego Instytutu Metalurgii*, v. 3, no 4, 1951, p. 307-327.

Above were determined by the maximum-bubble-pressure method. The following results were obtained: surface tension of mercury, measured against H_2, N_2 and CO_2, depends on time of contact with these gases; surface tension of molten Sn and Pb is higher against CO_2 than against N_2 and H_2; the complex association of metals cannot be determined by calculating the Eotvos constant on basis of experimental data; comparison of the experimental surface-tension curve of Pb-Bi alloys at 500°C. with the curve calculated theoretically on basis of additivity shows that so-called intermetallic compounds in the liquid state do not exist; and small additions of Zn and Sn do not affect the surface tension of molten Pb. 32 ref.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

FORYST, F.

POL.

Deformation of steel under the influence of internal blisters and cracks produced by cathodic hydrogen. M. Smialowski and J. Foryst. *Bull. acad. polon. sci., Classe III*, 2, 310-12(1954)(In English).—Measurements were made of the deformations of annularly bent steel samples under the influence of their satn. by cathodic H in a soln. of N H_2SO_4, contg. 3×10^{-4} mole As per l. The rings were cut from cold-rolled tubing analyzing C 0.26, Mn 0.53, Si 0.22, P 0.015, S 0.029%. The samples measured 38 mm. diam., 16 mm. long, 0.4 mm. wall thickness, with a 0.5 mm. wide gap or strip cut out. Samples were polished, degreased, and coated with a thin layer of ceresin, then connected with the negative pole of a d.-c. source and immersed in a small glass vessel, through which flowed the electrolyte at $25 \pm 1°$. A Pt sheet anode $10 \times 10 \times 0.05$ mm. was placed in the middle of the ring. Cathodic c.d. was 0.1 amp./sq. cm. The ring was removed every 30 min. and the width of the gap was measured, always in the same place, with a microscope. The width usually increased during electrolysis, and also occurred when the outer surface of the ring was not covered with ceresin. If the anode was on the outside of a ring not insulated with ceresin, the gap during electrolysis often diminished to 0 and the ring contracted with great force. In the initial state the rings did not become deformed under the influence of H. The gap width, even after a long period of electrolysis, remained const. or, at the most, increased to 0.40 mm. Rings heated at 450° or higher, gradually expanded under the influence of hydrogenation, the gap acquiring a const. value on the av. about 2 mm. greater than the initial width after about 2 hrs. of current flow. Long, narrow cracks were apparent under the microscope in specimens satd. with cathodic H after annealing at 450°. They were mostly transcryst. It is con-

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cluded that the deformation is due to the accumulation, under high pressure, of mol. H in the internal steel structure. Since Fe does not show any important changes in elec. cond. under the influences of hydrogenation, and since the changes in its magnetic properties are small, it is assumed that the H diffuses in an at. form, and not as a proton. When the H atoms encounter an inclusion or a hole present on the grain boundaries, they unite into particles which remain motionless in a given place. Approx. calcns. seem to show that the magnitude of the pressures created in the steel structure by the H blisters arising in this way may probably attain 10^4 or 10^5 atm. C. W. Schuck

FORYST, J. POLAND

"'Inmet' Oil as a Lubricant for Hot Tin Plating of Iron Sheets," by J. FORYST, J. MADEJSKI, and I. ZARZYCKI; Prace Instytutow Ministerstwa Hutnictwa, Gliwice, No. 1, 1955.

[redacted]

Forýst, Juljusz

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Susceptibility of [illegible] on the action of cathodic hydrogen versus the chemical composition of these steels. Juljusz Forýst and Michał [illegible]. *Prace Konf. Elektrochem.* Warsaw 1955, [illegible] — The [illegible] that [illegible] of cathodic H is caused by [illegible] and not by the formation of [illegible] the above [illegible]. The [illegible] steel bars of 3–5 mm. diam. and [illegible] production. The samples had the compn. [illegible] Si 0.10, 0.16; S [illegible] 0.08, 0.13; P [illegible] 0.0026; Al 0.[illegible] [illegible] 0.0145, 0.0121; [illegible] 0.0146, 0.0105; MnO [illegible], 0.0012; [illegible] MnS 0.0145, 0.0007; and FeS [illegible] [illegible] the temp. was kept const. at 21° and [illegible] 0.1 amp./sq. cm. The first type of steel [illegible] 4 times larger elongation than the 2nd type (which during melting was less alloyed with Si, Al, Ti [illegible] certain extent in steel). [illegible]